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NORTH NELSON WATER DISTRICT P.O. BOX 25 COX'S CREEK, KY 40013

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North Nelson Water District Water Quality Report 2012

Water System ID: KY0900323 General Manager: Colin S. Cissell 502-348-8342 CCR Contact: Colin S. Cissell 502-348-8342 northnelsonwaterdistrict@yahoo.com

Mailing address: P.O. Box 25 Cox's Creek, KY 40013

Meeting location and time: 5555 Louisville Rd, Cox's Creek, KY Third Monday each month at 7:00 PM



This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product.

Water Purchased From Bardstown (A)

(serves most of northern Nelson County)
Bardstown treats surface water from Sympson Lake.
Areas of high concern consist of row crops, bridges
and culverts, urban and recreational grasses, an airport
and an active landfill. The potential for hazardous
material accidentally spilling into the water source
gives these sites the Susceptibility Ranking of High.
However, the overall Susceptibility Ranking for
Bardstown's water source is Moderate. The completed
plan is available for inspection at the Lincoln Trail
Area Development District in Elizabethtown, KY.

Water Purchased From Louisville (B)

(Crescent Hill TPA serves Bullitt County, Spencer County, and extreme northern Nelson County)
LWC treats surface water from the Ohio River. A
Source Water Assessment Plan for Jefferson County
identified spills of hazardous materials and permitted
discharges of sanitary sewers as the highest
contamination risks. In Jefferson County, land use in
the protection area is primarily zoned for residential
and commercial use, with only a few industrial sites. In
Oldham and Trimble Counties land use is primarily
zoned for residential and agricultural use. Therefore
source water contamination risks are relatively low. To
view the entire Source Water Assessment and
Protection Plan contact Jim Smith at 502-569-3687.

(C) = North Nelson Water District

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and may pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants, such as viruses and bacteria, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as

salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Information About Lead:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Your local public water system is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead



The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. Unless otherwise noted, the report level is the highest level detected.

8 Highest Single Lowest Violation

Allowable

	Allowable Levels		Source	Measurement			Lowest Violation			
			oS				Monthly %		Likely Source of Turbidity	
Turbidity (NTU) TT	No more than 1 NTU A=			0.15			100			
* Representative samples			B=	0.09			100	No		Soil runoff
of filtered water	95% mon	thly samples	;							
Regulated Contamina	nt Test R	es ults								
Contaminant			rce	Report		Ran	ge	Date of	Violatio	Likely Source of
[code] (units)	MCL	MCLG	Source	Level	of	Dete	ction	Sample		Contamination
Beta photon emitters (pCi/L)	50	0	A=	4	4	to	4	Feb-10	No	Decay of natural and man- made deposits
Alpha emitters [4000] (pCi/L)	15	0	A=	0.02	0.02	to	0.02	Feb-10	No	Erosion of natural deposits
Uranium (μg/L)	30	0	A=	0.09	0.09	to	0.09	Feb-10	No	Erosion of natural deposits
Barium [1010] (ppm)	2	2	A=	0.018	0.018	to	0.018	Mar-12	No	Drilling wastes; metal refineries; erosion of natural deposits
Copper [1022] (ppm) sites exceeding action level 0	AL = 1.3	1.3	C=	0.110 (90 th percentile)	0	to	0.17	Jun-10	No	Corrosion of household plumbing systems
Fluoride [1025] (ppm)	4	4	A= B=	0.95 0.99	0.82 0.83	to to	1.07 1.09	Sep	No	Water additive which promotes strong teeth
Lead [1030] (ppb) sites exceeding action leve	AL =	0	C=	1.3 (90 th percentile)	0	to	2	Jun-10	No	Corrosion of household plumbing systems
Nitrate [1040] (ppm)	10	10	A= B=	1.61	0 0.8	to to	1.61 1.1	Mar-12 Oct-12	No	Fertilizer runoff; leaching from septic tanks, sewage; erosion of natural deposits
Atrazine [2050] (ppb)	3	3	A= B=	0.14	0	to to	0.29 0.24	Sep-12 Jul-12	No	Runoff from herbicide used on row crops
Total Organic Carbon (pp (report level=lowest avg. range of monthly ratios)	m) TT*	N/A	A= B=	1.91 1.3	1.25 0.65	to to	3.04 1.93	N/A	No	Naturally present in environment.
*Monthly ratio is the % 7	OC remov	al achieved	to th	e % TOC re	moval re	quire	d. Annual av	erage must b	e 1.00 or g	greater for compliance.
Chloramines (ppm)	MRDL = 4	MRDLG = 4	C=	2.10 (highest average)	1.30	to	2.20	N/A	No	Water additive used to control microbes.
Chlorine (ppm)	MRDL = 4	MRDLG = 4	C=	1.15 (highest average)	0.40	to	1.43	N/A	No	Water additive used to control microbes.
HAA (ppb) (all sites) [Haloacetic acids]	60	N/A	A= B=	55 8.8 (average)	20 7.4 (range	to to of sy	75 10.6 stem sites)	N/A	No	Byproduct of drinking water disinfection
TTHM (ppb) (all sites) [total trihalomethanes]	80	N/A	A= B=	42 15.4 (average)	15 9.9	to to	58 22.2 stem sites)	N/A	No	Byproduct of drinking water disinfection

Some or all of these definitions may be found in this report:

Maximum Contaminant Level (MCL) - the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) - the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

Parts per million (ppm) - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single penny in \$10,000. Parts per billion (ppb) - or micrograms per liter, (μg/L). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

Louisville Water Company monitors the Ohio River for Cryptosporidium, a tiny intestinal parasite often found in surface waters. Cryptosporidium can cause flu-like symptoms if ingested. In 2012, Louisville Water analyzed 24 samples taken directly from the Ohio River. Cryptosporidium was detected at low levels in 3 samples with levels ranging from 0 oocysts/L to 0.381 oocysts/L. These detections were within ranges typically measured in the Ohio River. Louisville Water optimizes its treatment processes to help ensure removal.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.

